



NEWS RELEASE

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Emerson Motors Introduces Digital Load Monitor For Detecting Dangerous Overload and Underload Conditions

Devices can protect equipment from impending failure, trigger shutdown

St. Louis, Mo., Sept. 19, 2001 – Emerson Motors, a division of Emerson (NYSE: EMR), recently introduced its Digital Load Monitor (DLM) – a powerful monitoring device capable of accurately measuring load on electrical motors and warning of overload and underload conditions.

The DLM has the capacity to calculate actual shaft power by utilizing software algorithms and discounting the motor losses. By measuring true shaft power rather than current or input power, the DLM determines the working load exerted by the driven application on the motor. This patented method of measurement provides more effective monitoring, even when the motor is operating at a fraction of its capacity.

“The benefits of this device are numerous. It provides exceptional protection of motor-driven equipment and processes. Its accurate load measuring capabilities enable your equipment to be monitored to the fullest. With the DLM’s pre- and main alarm systems, a warning of impending failure, or a shutdown will be triggered to help protect the equipment,” said Rob Boteler, Director of Technology Marketing. “Another major benefit of the DLM is its compact size and simplicity. The devices can be connected quickly and easily with minimal wiring.”

The DLM alarm is triggered by over- or under-loading on such motor-driven equipment as conveyor systems, cranes/lifting devices, agitators, scrapers, drilling/milling/grinding machines, compressors, stone grinding/crushing machines, saws, pumps and fans, among other applications.

A unique Auto Set Function allows for easy programming. The DLM measures the actual motor load for a three second interval then automatically sets the alarm level, so it is ready to warn of impending failure or trigger a complete shutdown of the process if necessary. The DLM can detect a motor overload or underload due to jamming, belt and chain breakage, dry running, pump cavitation

Emerson Motors Introduces Digital Load Monitor – Add One

and seized bearings. A pre-alarm function can sound before the main alarm activates to prevent unnecessary process interruption.

Programmable functions are accessible via the keypad and LCD window. Functions are set using a menu-driven command structure and include motor start delay timer, alarm delay timer, alarm functionality and password protection of set parameters. The DLM is supplied with factory fitted load representative analog outputs of 4-20mA, 0-20mA.

Designed with simplicity in mind, setup of a DLM unit typically takes less than 30 minutes and has a compact footprint of 1.77" x 3.54" x 4.53". The unit can also be setup by manually entering the desired values for the application in either HP, %HP, or %kW.

The DLM is also designed for motor supply voltages up to 4160V and is capable of monitoring single phase or three phase motors.

For more information on the DLM, call Curt Schroeder, technical products sales manager, at 314-553-1806 or visit www.usmotors.com/default_products.htm and click on Motor Monitoring. For a color photo of the image below, contact Jennifer Florian at 314-290-2171.

Emerson Motors, a global leader in the design and manufacture of electrical motors, provides a complete line of general and special purpose electric motors from 1/200 through 4,000 horsepower. Brands such as Emerson, Doerr, U.S. Electrical Motors, Hurst, Switch Reluctance Drives, and Status Technologies allow Emerson Motors to support a wide variety of applications including commercial and industrial, appliance, hermetic, automotive, and HVAC. For more information about Emerson Motors visit www.emersonmotors.com or contact the Literature Hotline at (800) 665-4850.

St. Louis-based Emerson (www.gotoemerson.com) is a global leader in bringing technology and engineering together to provide innovative solutions to customers in industrial automation; process control; heating, ventilating and air conditioning; electronics and telecommunications; and appliance and tools. Sales in fiscal 2000 were \$15.5 billion.

